



Our Reference: INC-031

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Mel.
w/ Drawings
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APR 01 2002

GROUP 3600

Applicant:

Walter J. Budd, et al.

Serial No.

09/548,757

Filing Date:

April 13, 2000

Examiner/Art Unit

S. Rodriguez/3681

Title:

ELECTRO-MAGNETIC ACTUATOR HAVING A
SHORTENED MAGNETIC FLUX FLOW LOOP

AMENDMENT

Box: Non-Fee Amendment
Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

The Office Action dated December 18, 2001 has been received and carefully reviewed. Please amend the above-identified patent application as indicated below.

In the drawing:

New Figure 4 is proposed. Figure 4 shows an engine in a vehicle with a cooling fan, the fan and engine separated by a clutch under the control of the electromagnetic actuator according to the present invention.

In the specification:

Replace the paragraph at page 2, lines 6-15, with the following paragraph:

a
The nut 18 includes an inner peripheral surface 32, an outer peripheral surface 34, and a fastening means 36, such as a thread. The fastening means 36 is adapted to attach the actuator 10 to the clutch 12. When attached, the nut 18 spins with the clutch 12. The stainless steel bushing 20 is adapted to couple the first end portion 28 of the shaft 16 and the inner peripheral surface 32 of the nut 18. When coupled, the shaft 16, the bushing 20, and the nut 18 form a interface surface 38 which spins with the clutch 12.